

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION

Inventor(s): ESCH et al.  
 Appln. No.: 08 | 870,591  
 Series Code ↑ | Serial No. ↑  
 Filed: June 6, 1997

Group Art Unit 1754  
 Examiner: S. Hendrickson  
 Atty. Dkt. P 238397 | 93200 FH  
 M# | Client Ref  
 Appln. Title: PRECIPITATED SILICAS

Hon. Commissioner of Patents  
 Washington, D.C. 20231

Sir:

REPLY/AMENDMENT/LETTER

Date: January 11, 2002

This is a reply/amendment/letter in the above-identified application and includes the herewith attachment of same date and subject which is incorporated hereinto by reference and the signature below is treated as the signature to the attachment in absence of a signature thereto.

## FEE REQUIREMENTS FOR CLAIMS AS AMENDED

## 1. Small Entity claim

- A. ☐ NOT made  
 B. ☐ Withdrawn  
 C. ☐ made herewith  
 D. ☐ made previously
- For B & C  
 See **Required**  
**Separate** Paper  
 (Pat-256)

Claims remaining after amendment	Highest number previously paid for	Present Extra	Large/Small Entity	Additional Fee	Fee Code Lg/Sm
2. Total Effective Claims	4	**minus 20	0	x \$18/\$9 = + \$0	103/203
3. Independent Claims	1	***minus 3	0	x \$84/\$42 = + \$0	102/202
4. If amendment enters proper multiple dependent claim(s) into this application for first time (leave blank if this is a reissue application) ..... add				+ \$280/\$140 = + \$0	104/204
5. Original due Date: August 19, 2001		<input type="checkbox"/> NONE			
6. Petition is hereby made to extend the original due date to cover the date this response is filed for which the requisite fee is attached		(1 mo) \$110/\$55 = (2 mos) \$400/\$200 = (3 mos) \$920/\$460 = (Usable only for ≤ 2mo.OA --- 4 mos) \$1,440/\$720 = (Usable only for 30 day/1mo.OA --- 5 mos) \$1,960/\$980 =	RECEIVED JAN 18 2002 \$1960		115/215 116/216 117/217 118/218 128/228
7. Enter any previous extension fee paid since above original due date and subtract				\$0	
8. Extension Fee Attached				+ \$1960	
9. If Terminal Disclaimer attached, add Rule 20(d) official fee .....				+ \$110/\$55	+ \$0 148/248
10. If IDS attached requires Official Fee under Rule 97 (c), ..... add				+ \$180	+ \$0 126
or if Rule 97(d) Request ..... add				+ \$180	+ \$0 126
11. After-Final Request Fee per rules 129(a) and 17(r) .....				+ \$740/370	+ \$0 146/246
12. No. of additional inventions for examination per Rule 129(b).....				x \$740/370 ea	+ \$0 149/249
13. Request for Continued Examination (RCE) .....				+ \$740/370	+ \$0 1179/1279
14. Petition fee for .....				+ \$0	
15. TOTAL FEE ENCLOSED =				\$1960	

16. \*If the entry in this space is less than entry in next space, the "Present Extra" result is "0".

17. \*\*If the "Highest number previously paid for" in this space is less than 20, write "20" in this space.

18. \*\*\*If the "Highest number previously paid for" in this space is less than 3, write "3" in this space.

Our Deposit Account No. 03-3975)

(Our Order No. 21123 | 238397  
 C# | M#

**CHARGE STATEMENT:** The Commissioner is hereby authorized to charge any fee specifically authorized hereafter, or any missing or insufficient fee(s) filed, or asserted to be filed, or which should have been filed herewith or concerning any paper filed hereafter, and which may be required under Rules 16-18 (missing or insufficiencies only) now or hereafter relative to this application and the resulting Official Document under Rule 20, or credit any overpayment, to our Accounting/Order Nos. shown above, for which purpose a duplicate copy of this sheet is attached.

This CHARGE STATEMENT does not authorize charge of the issue fee until/unless an issue fee transmittal sheet is filed.

Query: Is appeal deadline now? If so, file Notice of Appeals separately.

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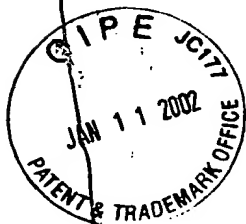
(703) 905-2173

Atty/Sec: MÅS/CJT

NOTE: File this cover sheet in duplicate with PTO receipt (PAT-103A) and attachments

# 41/43  
1/27/02

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**



In re patent application of:

Esch, *et al.*

Appl. No.: 08/870,591

Filed: June 6, 1997

For: **Precipitated Silicas**

Art Unit: 1754

Examiner: S. Hendrickson

Atty. Dkt. 21123/238397

**Amendment and Response Under 37 C.F.R. §1.111**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In response to the Office Action dated July 19, 2001, Applicants respectfully request reconsideration of the above-captioned application in view of the following amendments and remarks.

**Amendments**

***In the Claims:***

Please cancel claims 12-15 without prejudice.

Please add new claims 16-19 as follows:

**16** A precipitated silica having the following physico-chemical properties:

BET surface area: 35 to 350 m<sup>2</sup>/g;

BET/CTAB surface area ratio: 0.8 to 1.1;

pore volume, PV: 1.6 to 3.4 ml/g;

silanol group density, ml of NaOH

consumed in raising pH to 9: 6 to 20 ml;

average aggregate size: 250 to 1500 nm;

CTAB surface area: 30 to 350 m<sup>2</sup>/g;

DBP volume: 150 to 300 ml/100 g;

V<sub>2</sub>/V<sub>1</sub> by Hg porosimetry: 0.19 to 0.46; and

DBP/CTAB: 1.2 to 3.5.

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